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Cotton Fiber and Processing Test Results

CROP of

1974



Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 September 27, 1974

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1974

Discussion of Test Results

Short staple samples tested in the Cotton Division laboratories of the Agricultural Marketing Service to date show average Fibrograph length to be shorter than a year ago. Cottons are finer and fiber uniformity is lower. Cottons are stronger in fiber strength at both zero and 1/8 inch gage tests. Shirley Analyzer nonlint content is lower than a year ago. Yarns spun from these samples show higher appearance grades. Yarn imperfections are fewer.

Medium staple samples tested from the Southwest show cottons to be finer and stronger than last season. Picker and card waste is higher. Yarns spun from these samples show yarn strength to be slightly stronger. Yarn imperfections were fewer than last season.

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These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.^{1/} These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

^{1/} Summary of Cotton Fiber and Processing Test Results, Crop of 1973,
USDA, AMS, Cotton Division, May 1974.

Table 1.--Cotton:

Averages of fiber and processing tests from selected gin points in the United States
through September 20, 1974

1/

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results					
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality		Spin. Potent.		
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appear- ance		Imperf- ections	
				Inches			Pct.	Rdg.			Mpsi		G/tex
Short Staple: Southwest 1973 1974	3	0.99	47	4.3	75	20	4.5	6.5	94	100	25	42	
	6	0.95	44	4.1	88	21	3.2	6.6	91	110	14	41	
Medium Staple: Southwest 1973 1974	13	1.09	45	4.5	80	21	2.3	5.2	99	96	24	61	
	24	1.08	45	4.3	84	23	2.7	5.8	104	93	19	62	
Significant dif- ference 2/		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3	

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1974

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns													
No	Grade	Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint	Color Raw Stock		P & C Waste		Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten-tial				
				2.5% span	Unif		Zero	1/8" Gage			Pct	G/tex	Gra	Yel	Pct	Waste	8s or 74 tx	22sor 27 tx	8s or 74 tx	22s or 27 tx	Pct	Pct		No	No	8s or 74 tx	22sor 27 tx
SOUTHWEST AREA																											
CENTRAL TEXAS																											
TAYLOR																											
2	S LM	LT SP	42	30	0.94	45	4.0	84	20	6.1	3.8	3	4	6.2	311	92	7.1	6.0	120	120	16	11	41				
														85 PERCENT													
WAXAHACHIE																											
1	S LM	LT SP	42	30	0.90	42	3.7	85	18	5.6	3.6	4	4	7.0	256	74	5.8	4.8	120	100	28	25	32				
														95 PERCENT													
WAXAHACHIE																											
1	MID	LT SP	32	30	0.93	43	3.7	91	19	5.0	3.1	2	4	6.9	295	83	6.8	5.3	120	90	14	15	34				
														95 PERCENT													

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1974

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade		Stple	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct's		Spin. Potential	
	Name	Code		2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		Lbs	Lbs	Pct	Pct	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx		22s or 27 tx
				32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Pct	Pct	No	No	No	No	No		
SOUTHWEST AREA																							
SOUTH TEXAS																							
EL CAMPO																							
3	SLM	LT SP	42	34	1.07	45	4.6	92	20	4.8	2.7	4	4	6.5	97	29	5.4	80	70	20	19	54	
85 PERCENT																							
STONEVILLE 7A																							
GAVADO																							
3	SLM	LT SP	42	33	1.06	44	4.3	83	21	6.7	4.4	3	4	6.3	98	31	6.1	90	70	18	18	59	
75 PERCENT																							
DELIAPINE 16																							
CENTRAL TEXAS																							
BATESVILLE																							
2	SLM	TG	44	35	1.10	43	4.5	82	21	6.0	4.1	7	7	6.4	97	32	5.6	70	60	42	29	56	
95 PERCENT																							
STONEVILLE 213																							
WHITNEY																							
1	SLM		41	31	0.96	42	3.0	87	20	5.4	3.6	1	4	8.2	84	25	5.1	70	60	26	28	43	
100 PERCENT																							
TAMCOT SP37																							

